



TECHNICAL DATA

NP1484

WATER CLEAR POLYURETHANE POTTING COMPOUND

Product Description

NP1484 is a two component water clear polyurethane potting compound that is stable in continuous UV light. The system reacts at room temperature to produce a tough abrasion resistant material with good hydrolysis resistance.

The LED Range of Resins

The NP1484 two-component, water clear polyurethane from our LED range of resins has been developed for potting and encapsulation applications. The low mix viscosity penetrates around components, and the enhanced flexibility reduces stresses on them during thermal cycling. The NP1484 PU system has improved adhesion to a wide range of materials and the crystal clear finish is shown not to be affected in our weathering tests.

Features

- * Low Mix Viscosity
- * Very Clear
- * UV Stability
- * Excellent Electrical Properties
- * Water Resistant
- * Tough & Abrasion Resistant

Applications

- * Assemblies
- * Tracks
- * Arrays
- * Luminaires
- * Uplights
- * Doming

Typical Uncured Physical Properties

Property	Base	Hardener	Mixed System
Viscosity (mPas)	300	300	400
Colour	Clear	Clear	Clear
Specific Gravity	1.04	1.12	1.08
Mix Ratio	100 100	108 100	By Weight By Volume



Pot Life	12 Minutes	100 gm @ 23°C
Gel Time	20 Minutes	100 gm @ 23°C
Full Cure	24 Hours	100 gm @ 23°C

Typical Cured Properties

Property	Result	Units
Operating Temperature	-40 to +120	°C Continuous
Shore A Hardness	75 - 80	After 48 hours
Electric Strength	15	kV/mm
Continuous Tracking Index	>850	V
Thermal Conductivity	0.3	W/m ⁰ K
Deflection Temperature	40	°C (Approx)
Tensile Strength	15	MN/m ²
Elongation at Break	150	%

Note: The above technical information and data should be considered representative or typical only and should not be used for specification purposes.

Supply	Details
Twinpacks	Ideal for mixing without the entrapment of air
Kits	The resin base and hardener are supplied in two separate containers, pre-weighed to facilitate accurate mixing for larger applications
Bulk	Available in proportioned containers
Shelf Life	The materials should be stored in the original unopened containers under cool dry conditions at temperatures between 10 and 25 °C. The shelf life is one year. Opened containers should be resealed.



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Precautionary Information

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. All Products should be used in accordance with your own COSHH Assessments. For additional health and safety information, call 01373 858234.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that ALH believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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